

# HALE COMMEND SHAVIES OF ANY LEARION

# Pfister Hybrid Corn Company

TUlticreas, there has been presented to the

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC seed of the variety in a public repository as provided by  ${
m LAW}$ , the right to ex-DE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 2, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

'LP1 NR Ht'

In Lestimony Winereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of

day of January his year of our Lord one thousand nine

eighty.

Allert

UNITED STATES DEPARTMENT AGRICULTURAL MARK	FORM APPROVED OMB NO. 40-R3822					
LIVESTOCK, POULTRY, GRA APPLICATION FOR PLANT VARIE INSTRUCTIONS: See Reverse.		N CERTIFICATE	No certificate for pla be issued unless a co has been received (5 t	nt variety protection may mpleted application form J.S.C. 553).		
1a. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAME		FOR OFFICIAL USE ONLY			
LP1 NR Ht	LP1 NR Ht		7800020			
2. KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME (A.M.)		
Corn	Zea Mays		FEE RECEIVED	/0:00 P.M.		
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETER	RMINATION	\$ 250.00	1-9-78		
Gramineae	July 1976		\$ <b>250.00</b> 250.00	12-10-79		
6. NAME OF APPLICANT(S)	7. ADDRESS (Street Code)	and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER		
Pfister Hybrid Corn	P.O. Box	187		309/527-6000		
Company		Illinois 617				
9. IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh	ERSON, FORM OF sip, association, etc.)	10. IF INCORPORAT DATE OF INCOR	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION		
Corporation		Delaware		June 19, 1944		
12. NAME AND MAILING ADDRESS OF APP ALL PAPERS:						
Mr. Chas. W. Rummler/Rum Chicago, Illinois 60603		ow// South D	earborn Stre	et/		
13. CHECK BOX BELOW FOR EACH ATTAC	HMENT SUBMITTED:		·-·			
🔀 13A. Exhibit A, Origin and Bre	eding History of the	Variety (See Section .	52 of the Plant Variet	y Protection Act.)		
138. Exhibit B, Novelty Staten	nent.					
13C. Exhibit C, Objective Desc	ription of the Variety	(Request form from	Plant Variety Protect	ion Office.)		
13D. Exhibit D, Additional Des	scription of the Varie	ty.				
14a. DOES THE APPLICANT(S) SPECIFY THA SEED? (See Section 83(a). (If "Yes," answ	T SEED OF THIS VAR	IETY BE SOLD BY VA	RIETY NAME ONLY AS	A CLASS OF CERTIFIED		
14b. DOES THE APPLICANT(S) SPECIFY THA LIMITED AS TO NUMBER OF GENERAT	T THIS VARIETY BE		B, HOW MANY GENER BREEDER SEED?	ATIONS OF PRODUC-		
☐ YES ☒ NO		FOUNDATION	REGISTERED	CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROT name of countries and dates.)	FECTION OF THIS VA	RIETY IN OTHER COU	NTRIES? TYES	NO (If "Yes," give		
,						
			_			
15b. HAVE RIGHTS BEEN GRANTED THIS V and dates.)	ARIETY IN OTHER CO	OUNTRIES? YES	NO (If "Yes,"	give name of countries		
16. DOES THE APPLICANT(S) AGREE TO THE JOURNAL? X YES	TE PUBLICATION OF I	HIS/HER (THEIR) NAM	IE(S) AND ADDRESS IN	THE OFFICIAL		
17. The applicant(s) declare(s) that a viab replenished upon request in accordance	le sample of basic see	d of this variety will	be furnished with the	application and will be		
The undersigned applicant(s) is (are) t				haliama(a) shas sha		
variety is distinct, uniform, and stable 42 of the Plant Variety Act.	as required in Section	n 41, and is entitled t	o protection under the	e provisions of Section		
Applicant(s) is (are) informed that fal	se representation her	ein can jeopardize pro	tection and result in 1	penalties.		
		<u>Pfister</u> Hv	brid Corn Co	mpany		
(DATE)			SIGNATURE OF APPL	ICÂNT)		
3-24-78		By: Man	1 E Phr	3 m. T		
(DATE) FORM GR-470 (1-78)			SIGNATURE OF APPL	ICANT)		

#### INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

#### ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

  (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
  - See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

# 7800020

### EXHIBIT A

### Origin and Breeding History of the Variety

#### 1. <u>Origin</u>:

LP1 NR Ht originated in Illinois, U.S.A., as a breeding development of Pfister Hybrid Corn Company. Work was performed by Pfister Research Agronomist James Bryant, under direction of Company Research Director. Work is fully documented in permanent records of Company.

### 2. <u>Breeding History:</u>

In the developement of LP1 Cms Ht, LP1 NR Ht (a specific A632 selection) was found to be a non restoring maintainer for LP1 Cms Ht.

#### 3. Inbred Variety Description:

LP1 NR Ht is a phenotypically uniform inbred. It is genetically homozygous with fixed characteristics typical of A632.

## 4. Disease Resistance Traits:

LP1 NR Ht possesses the homozygous dominate resistant gene, Ht, for Northern Corn Leaf Blight, incited by Helminthosporium Turcicum.

# Origin and Breeding History of LP1 NR Ht. a Corn Dent Inbred

The following is a chronological history of the breeding of the line LPL NR Htg. Refs Work on this development was conducted by Pfister Hybrid Corn Company, El Paso, Illinois, 61738, in two locations: El Paso, Illinois and Kaunakakai, Molokai, Hawaii.

Summer 1975 El Paso: Pollen parent 182Ht<sub>1</sub>-Blk-l was crossed onto 689msxl18)181-6BC ear parent selecting for sterility and other desirable agronomic characteristics. 182Ht<sub>1</sub>-Blk-l is a private selection related to A632 with Helminthosporium turcicum resistance.

Fifty plant number selfs and crosses were made. (Nursery Book-pollen parent rows 2101-2105, Page 29)

Winter 1975-76 1st planting Hawaii: Pollen parent 182Ht<sub>1</sub>-Blk-1)PN942 was crossed onto 689msxl18)181-6BC)182Ht<sub>1</sub>-Blk-1 ear parent selecting for sterility and other desirable agronomic characteristics.

(Nursery Book - Row 1217, Page 41)

Winter 1975-76 2nd planting Hawaii: Pollen parent 182Ht<sub>1</sub>-Blk-1)Pn@42-@ was crossed onto 689msxl18)181-6BC)182Ht<sub>1</sub>-Blk-1)BC ear parent selecting for sterility and other desirable agronomic characteristics. (Nursery Book - Row 1338, Page 45)

Summer 1976 El Paso: Pollen parent 182Ht\_Blk-1)Pn@42-@ was crossed onto 689msx118)181-6BC)182Ht\_Blk-1)BC ear parent selecting for sterility and other desirable agronomic characteristics. (Due to poor location in winter nursery, observations could not be made and this election was not worked. We dropped back to previous generation stocks for pollen parent.) (Nursery Book - Row 9704, Page 328)

Winter 1976-77 Hawaii: Pollen parent 182Ht<sub>1</sub>-Blk-1)PN®42-2 was crossed onto 689msxl18)181-6BC)182Ht<sub>1</sub>-Blk-1)2BC ear parent selecting for sterility and other desirable agronomic characteristics.

(All 34 sets of sterile checks were 100% sterile. Hybrid test crosses were made to check yield potential.) (Nursery Book - Rows 136, 138, 140, etc to 202, Pages 5 to 7)

Summer 1977 El Paso: Pollen parent 182Ht<sub>1</sub>-Blk-1)PN@l<sub>1</sub>2-@<sup>3</sup> was crossed onto 689msxll8)181-6BC)182Ht<sub>1</sub>-Blk-1)3BC ear parent selecting for sterility and other desirable agronomic characteristics.

(Nursery Book - Rows 6752, 6754, 6756, etc to 6822, Pages 57 to 59)

Winter 1977-78 Hawaii: Pollen parent 182Ht, -Blk-l-PN@42-2 was crossed onto  $689msx118)181-6BC)182Ht_1-Blk-1)4BC$  ear parent selecting for sterility and other desirable agronomic characteristics. At this stage, both the male sterile ear parent and the pollen parent maintainer were crossed onto yield tester lines to check yield potential and other agronomic traits. LP1 NR Ht, seed stocks were increased in foundation fields during the winter season. (Nursery Book -Rows 1589, 1591, 1593, etc. to 1607, Pages 54-55)

Summer 1978 El Paso:

Pollen parent 182Ht<sub>1</sub>-Blk-1-PN9/12-9<sup>5</sup> (LP1 NR Ht<sub>1</sub>) was crossed onto 689msxl18)181-6BC)182Ht<sub>1</sub>-Blk-1)5BC (LP1 Cms Ht<sub>2</sub>)<sub>p/5</sub> ear parent. Selection for sterility and favorable agronomic traits will be continued in future generations. LPI NR Ht Ris seed stocks were increased in foundation fields during 1978. (Nursery Book - Rows 11103, 11105, 11107, etc. to 11121, Page 94)

Insummary, a non-restoring maintainer was selected from 182Ht<sub>l</sub>-Blk-1 for LPl Cms Ht<sub>ery</sub>s In each generation of work a paired row - plant number self-cross scheme was used to determine the favorable selections. Other desirable agronomic traits were selected in the process.

#### Attached:

Facsimile reproduction of the Nursery Book pages mentioned above.

Supplement to Exhibit 13A LP1 NR Ht. Dent Corn Inbred

### January 3, 1979

The LP1 NR Ht. dent corn inbred is stable genetically. No variants have been noted in the line since its first use in test crosses in 1976-77 and subsequent pilot and commercial production. Additional evidence of its uniformity is the six (6) generations of selfing after selection.

PV No. 7800020 Corn 'LP1 NR Ht'

#### Exhibit B (Revised)

'LP1 NR Ht' is most similar to 'A632' and 'LP1 Cms Ht'. 'LP1 NR Ht' is resistant to Helminthosporium turcicum, whereas 'A632' is susceptible. 'LP1 Cms Ht' is 100% male sterile (non-viable pollen) when maintained with 'LP1 NR Ht'. 'LP1 Cms Ht' is restored totally or partially (viable pollen) when maintained by other 'A632' selection.

Signature and Date Ram & Pfirst 2-16-79
Applicant

FORM GR-470-28 (2-15-74)

#### UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

EXHIBIT C

HYATTSVILLE, MARYLAND 20782

# OBJECTIVE DESCRIPTION OF VARIETY

CORN (ZEA MAYS)	·
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
PFISTER HYBRID CORN COMPANY	78000 <b>20</b>
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 187	VARIETY NAME OR TEMPORARY
El Paso, Illinois 61738	LP1 NR HT
Place the appropriate number that describes the varietal character of this variety in Place a zero in first box (e-8-089 or 09) when number is either 99 or less	the boxes below.
1. TYPE:	
2 1 = SWEET 2 = DENT 3 = FLINT 4 = FLOUR 5	POP 6 = ORNAMENTAL
2. REGION WHERE BEST ADAPTED IN THE U.S.A.:	
1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 5 = SOUTHCENTRAL 6 = SOUTHWEST 7 = MOST REGION	NS
	r" omments" (pg. 3) state how inits were calculated)
6 9 DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK	5 2 0 HEAT UNITS
N A DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY	HEAT UNITS
5 6 DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE	1 7 0 HEAT UNITS
4. PLANT:	
2 1 5 CM, HEIGHT (To tassel tip)	1 0 8 CM, EAR HEIGHT (To base of top ear)
1 2 CM. LENGTH OF TOP EAR INTERNODE	
Number of Tillers: Number of Ears Per St	talk ·
Number of Liness.	
2 1 = NONE 2 = 1-2 3 = 2-3 4 = >3 2 1 = SINGLE	2 = SLIGHT TWO-EAR TENDENCY WO-EAR TENDENCY 4 = THREE-EAR TENDENCY
Cytoplasm Type:	WO-EAR LENDENCY 4- THREE-EAR LENDENCY
1 = NORMAL 2 = "T" 3 = "S" 4 = "C" 5 = OTH	HER (Specify)
5. LEAF (Field Corn Inbred Examples Given):	
Color:	
1 = LIGHT GREEN (HY) 2 = MEDIUM GREEN (WF9) 3 = DARK	GREEN (B14) 4 = VERY DARK GREEN (K166
Angle from Stalk (Upper half): Sheath Pubscence:	
121 1-200	HT (W22) 2 = MEDIUM (WF9) AVY (OH26)
Marginal Waves: Longitudinal Creases:	
3 = MAI	SENT (OH51) 2 = FEW (OH56A) NY (PA11)
Width: Length:	•
1 0 CM. WIDEST POINT OF EAR NODE LEAF	M. EAR NODE LEAF
1 4 NUMBER OF LEAVES PER MATURE PLANT	<b>7</b>

FORM	GR-470-28	LP1 NR H	in RLS	Ħ	780002	O	Pf	ister H	ybrid Co	rn Compan	ÿ Page 2 of 3
-	TASSEL:	······································	-	-							
	1 0	NUMBER OF I	LATERAL	BRANCH	ES	~					
	Branch Angl	e from Central S	pike:			Pen	duncle Length	:			
	1	1 = < 30:	2 = 30-	40°	3 = > 45°		0 5	CM, FROI	M TOP LEAF	TO BASAL BE	RANCHES
	Pollen Shed:										
	2	1 = LIGHT (WI	<del>-</del> 9)	2	= MEDIUM	·	3= HEAV	Y(KY21)			
	2 6	Anther Color: Glume Color:	6 = 0		2 = pecify) <u>Ini</u> t	ially a		er redd		5 = ·	GREEN
	Pollen Resto	oration for Cytop	olasms (o =	Not Teste	d, 1 = Partial, :	2 = Good)	3 = Non	-restor:	ing		
	О "т"	0	"S"	3 "	e" [	ОТНЕ	R (Specify Cyt	oplasm and o	degrees of res	toration)	
7	. EAR (Husk	ed Ear Data Exc	ept When	Stated Oth	erwise):	-					
	1 4	CM LENGTH	<u>4</u> (		MID-POINT METER		1 2 5	GM, WE	GHT		
	Kernel Row	s:									
	2	1 = INDISTIN	ст	2 = 0	DISTINCT		14	NUMBER			
	1	1 = STRAIGH	г	2 = \$Li0	HTLY CURV	ED	3 = SPIRA	<b>\L</b>			
	Silk Color (1	Exposed at Silkin	ıg Stage):								
•	1	1 = GREEN	2	e PINK	3 = SA	ALMON	4 =	RED			
	Husk Color:									-	
	2	FRESH	} 1	= LIGHT	GREEN		2 = DARK GF	REEN	3 = P	INK	
	6	DRY	) 4	= RED		5 = PURP	ĻЕ	6 = BL	JFF		
		ion: (Harvest S					ik Leaf:				
	3 3 = LC	IORT (Ears Exp ONG (8—10CM E	osed) 2 = 3eyond Ea	MEDIŲM ( r Tip)	(Barely Coveri	ng Ear)	[2]	1 = SHORT ( 3 = LONG (	<pre>&lt; 8 CM)</pre>	2 = MEDIUM	(8—15 CM)
	4 = VI Shank:	ERY LONG (>	10 CM)			Pos	ition at Dry H		-		
	1 6	CM LONG	8 ,	IO. OF INT	ERNODES		1	1 = UPRIGH	т 2 = Н	ORIZONTAL	3 = PENDENT
	Taper:					Dry	ing Time (Unl	husked Ear):			
	1	1 = SLIGHT	2 = AVE	RAGE	3 = EXTREM	ЛЕ 	2	1 = SLOW	2 = A	VERAGE	3 = FAST
<b>)</b> 8.	KERNEL (C										
	Size (From I	Ear Mid-Point):  MM LONG	٦	0 8 1	MM, WIDE					<u></u>	
	لــــــا	(% Rounds)	L	<u>~ (~)</u>	······, **IDE	[0]	<u>5</u> ] мм.т	ніск		r.	8
	3	1 = < 20	<b>2 = :</b> 00020	20-40	3 - 40		4 = 60-	-80	6 <b>-</b> > 8	30	
-	•		,,,,,,,			۲a٤	ge 18				

RM GR-470-28 Li	Pl NR Ht	ER/5 77	17800020	Pfiste	er Hybrid	Corn C	ompany	Page 3 of
8. KERNEL (Dried) :					· •			
1 Pericarp		- COLORLESS - BROWN	2 = RED-WH 6 = LIGHT F		3 = TAN 7 = CHERRY		RONZE	
	8	- VARIEGATE	D (Describe)					
1 Aleuron	: Color: 1	⊨ HOMQZYGO	JS 2 = SEG1	REGATING (Describe)				<del></del> .
[70] 1 = WHI	ΓE	2 = PINK	3 = TAN	4 = BROWN		5 = BAC	NZE	6 = REC
7 = PUR	PLE	8 = PALE PUF	RPLE 9 = VAF	RIEGATED (Describe)	10 = Y	ellow	<u> </u>	<del></del>
2 Endospe	m Color:	1 = WHITE	2 = PALE YELLOW	3 - YELLOW	4 = PINK-0	RANGE	5 = WHI	TE CAP.
Endosperm Type:								
1 2 1	ET (su1) (Y STARCH	2 = EX 6 = HIG	TRA SWEET (sh2) SH PROTEIN	3 = NORMAL STA 7 = HIGH LYSINE		= HIGH AM = OTHER (		ARCH
2 6 GM, WE	IGHT /100 S	EEDS (Unsized S	Sample)					
COB:								
2 5 MM. DI	AMETER AT	MID-POINT						
Strength:			C	olor: 			000000	
2 1 = WE	\K 2	= STRONG	Γ	1 = WHITE 2	-	RED 4	= BROWN	
O. DISEASE RESIST	ANCE (O = N	Not Tested, 1 = S	Susceptible, 2 = Resistant	):				
2 STALK	ROT (Diplod	tia)	1 STALK ROT (	Fusarium)	1	STALK RO	OT (Gibbere	IIa)
2 NORTH	ERN LEAF	BLIGHT	1 SOUTHERN L	EAF BLIGHT (Race-	0) 0	SMUT (S	. reili	ana)
<u>~</u>	SOUTHERN BUST CORN SMUT (Ustilago maydis) O BACTERIAL WILT							
<del></del>	RIAL LÉAF I	BLIGHT	0 MAIZE DWAF	F MOSAIC		E. cara	tovora	(f. sp.
(E.	stewarti	i)	[ 🗸 ]		ت			
	·BRace				·	<del></del>		
1. INSECT RESISTA	NCT (O = No	ot Tested, 1 = Su	sceptible, 2 = Resistant):					
0 CORNI	ORER	[0]	EARWORM	O SAF	PBEET <b>L</b> E	• [	O APHI	D
O ROOT	VORM (North	iern) 0	ROOTWORM (Western)					
O ROOT	VORM (South	nern)	OTHER (Specify)		<del></del>			
NABIETIES MOS	TCIOSELV	BESEMBLING	THAT SUBMITTED FOR	THE CHARACTERS O	IVEN:		<del></del>	<del></del>
CHARACTER	CLOSELI	THE SEMBLE IN CO.	VARIETY	CHARACTER			VARIETY	<del> </del>
Maturity			A632	Kernel Type		A	632	
Plant Type			A632	Quality (Edib	ile)			
Ear Type			A632	Usage		A	.632	
		riculture. Yearbo						
			1970 Avi Publishing Cor					
			C. Fraser. A Summary of I Science Society of Americ		,cornell A.E.S.	, wem. 180.	1935.	
		-	of Ohlo, Ohio A.E.S. Bu					
			ne Classification of Corn		sis, Ohio State	University.		
	eat Unit	Formula =	= Accumulation of the second s	of growing degr	ee davs (	G.D.D.)	based 50°F	
		<del></del>						
				·			F .	_

# Additional Description of the Variety

LPl NR Ht, is a yellow corn inbred. The line is most similar to  $182\text{Ht}_1$ -Blk-1 in plant and ear type. Inbred  $182\text{Ht}_1$ -Blk-1 is a private A632 selection with Helminthosporium turcicum resistance. LPl NR Ht, is 15-20 cm. taller and  $1\frac{1}{2}\%$  higher in moisture than  $182\text{Ht}_1$ -Blk-1. Hybrids with LPl NR Ht, substituted for  $182\text{Ht}_1$ -Blk-1 are taller, later and show more uniformity and late health.

The stalk quality of LP1 NR Ht is slightly better than 182Ht Blk-1. The line will have 1-2 tillers under normal conditions. Fourteen leaves are normal and are oriented from 30-60 degrees from horizontal. The ear is medium in length and has a long husk extension. The kernels are arranged in 14 straight rows. The kernel is thick, yellow-orange with a pale yellow cap.

LP1 NR Ht is a 100% non-restoring maintainer for LP1 Cms Ht. Other A632 types either completely or partially restore LP1 Cms Ht.



### **United States Department of Agriculture**

January 21, 1998

Research, Education, and Economics Agricultural Research Service

Marian R. Minnifield Secretary Plant Variety Protection Office NAL Building, Room 500 10301 Baltimore Boulevard Beltsville, Maryland 20705-2351

Subj: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number	<b>EXPIRED</b>	
107423	01	7900099	01/02/1997	
107424	01	7800077	01/02/1997	
107425	01	7900062	01/02/1997	
107428	01	7900095	01/02/1997	
107429	01	7700092	01/02/1997	
108309	01	7900116	01/29/1997	
108310	01	<b>79</b> 00117	01/29/1997	
108311	01	7900087	01/29/1997	
108312	01	7800080	01/29/1997	
108313	01	7800020	01/29/1997	
109381	01	7900113	03/27/1997	
109382	01	7900030	03/27/1997	
109383	01	7900102	03/27/1997	
109384	01	7900063	03/11/1997	
109386	01	7300068	03/11/1997	
109387	01	7900120	02/26/1997	
109388	01	7700028	02/26/1997	
109389	01	7700112	02/26/1997	
109390	01	7900040	03/11/1997	
109791	01	7800071	02/26/1997	
110210	01	8000058	05/15/1997	
110211	01	7800103	05/01/1997	
110212	02	8000001	05/01/1997	
110213	01	7800001	05/01/1997	



	110214	02	7200105	04/24/0197			
	110215	01	8000022	04/24/1997			
	110216	01	7900060	05/01/1997			
	110217	01	7900084	05/01/1997	•		
	110218	01	8000071	05/01/1997		 	
	110210	O1	8000071	03/13/1997			
	110219	01	7900101	05/01/1997			
	110220	01	8000043	05/15/1997			
	110221	01	8000015	05/15/1997			
•	110222	01	7900111	05/15/1997			
	110223	01	7900110	05/15/1997			
	110227	01	7900106	05/15/1997			
	110228	01	7900071	04/24/1997		 	
	110229	01	7900100	05/01/1997			
	110230	01	7900075	05/01/1997			
	110231	01	7900108	04/24/1997			
	110236	01	8000053	05/29/1997			
	110239	01	7900098	05/29/1997			
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169608	01	8100103	07/15/1997

Sincerely,
Engene D. Keys
Computer Assistant
Data Management